

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) Method for reprocessing used PET bottles, comprising the steps:

- a) shredding (101, 201) the bottles to yield plastic flakes,
- b) sorting the plastic flakes (103, 104) according to at least one criterion into at least two partial quantities, and
- c) and performing an industrial reprocessing treatment.

2. (Previously Presented) Method according to Claim 1, wherein the plastic flakes in step b) are sorted according to one of a difference in size, a difference in thickness, a difference in weight, a difference in density, a difference in crystallinity, and a combination of one or more thereof.

3. (Previously Presented) Method according to Claim 1, wherein the flakes are sorted in such a way that a first partial quantity consists of at least approximately 95% plastic flakes of thick-walled parts of the beverage container, and a second partial quantity consists of at least approximately 95% plastic flakes of thin-walled parts of the beverage container.

4. (Previously Presented) Method according to Claim 3, and reshredding the first partial quantity in process step c) in another shredding step (104).

5. (Previously Presented) Method according to Claim 4, and combining again the first partial quantity and the second partial quantity after the reshredding step (104) of the first partial quantity, and then jointly decontaminating the combined quantities.

6. (Previously Presented) Method according to Claim 1, and using a pneumatic table (303) is used in the sorting step b).

7. (Previously Presented) Method according to Claim 1, wherein the sorting step b) includes a density separation as a function of crystallinity in a liquid medium.

8. (Withdrawn) Device for reprocessing used PET bottles, comprising a shredding system (300) for shredding the plastic containers to yield plastic flakes, a sorting system (303) for sorting the plastic flakes according to at least one criterion into at least two

partial quantities, and a decontamination system (309, 310) for decontaminating the plastic flakes.

9. (Withdrawn) Device according to Claim 8, wherein the sorting system comprises a pneumatic table (303).

10. (Withdrawn) Device according to Claim 9, wherein the sorting system comprises a screen device.

11. (Previously Presented) Method according to Claim 1, wherein the step of performing an industrial reprocessing treatment includes a decontamination treatment.

12. (Previously Presented) Method according to Claim 3, wherein the first partial quantity consists of at least approximately 98% plastic flakes of thick-walled parts of the beverage container.

13. (Previously Presented) Method according to Claim 3, wherein the second partial quantity consists of at least approximately 98% plastic flakes of thin-walled parts of the beverage container.